



# CITY OF GILLETTE

## Administrative Services Department - GIS Division

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[www.gillettewy.gov](http://www.gillettewy.gov)

Dear Reference Station User,

The City of Gillette is pleased to announce that a new NETR9 Reference Station has been installed at the Bell Nob Golf Course on the West side of town. The 4000ssi series base station and radio will be decommissioned **November 30, 2016**. There is some pertinent information to go along with this new system as described below. We also invite you to our webpage (<http://www.gillettewy.gov/GIS>) for even more data about the reference station.

- **Equipment:** NetR9 GNSS Reference Receiver and a Trimble Zephyr Geodetic Antenna
- **Power:** Two 12 volt batteries powered by a solar panel
- **Reference Station Position:** NAD 83 2011 Epoch 2010.00
- **NGS CORs:** It is CORs compliant; however, it is not currently a CORs station
- **Observations:** Rinex 2.11 observations logged hourly are currently available using an FTP site (WinSCP or others); data will be stored for 90 days
- **FTP site Host Name:** <ftp://gis.gillettewy.gov>
- **FTP site User Name:** Anonymous
- **Radio:** There is no radio connected to the reference station; there is a wireless router built into it to be continuously connected to the Internet which logs files hourly
- **RTK Corrections:** are currently available using a Cellular Device and an IP address
- **Internet Protocol (IP) Address to use in the Cellular Device:** [69.145.187.164](http://69.145.187.164)
- **Current Formats:** Port 5017 - RT27 (1Hz); Port 5018 - CMRx; Port 5019 - RTCM v3.x; Port 5020 - CMR+ (others can be added upon request)
- **Configurations:** It is Trimble equipment, however other systems can use the reference station
- **City Calibration:** PCA Engineering, Inc. did a three-point translation for the new City base broadcasting NAD83-2011(2010) position to the original published City Horizontal and Vertical Control Networks [NAD83-(86)]. If an entity would like to use the calibration, it can be found on the website.
- **Technical questions:** Especially datum inquiries, should be directed to Mel Philbrook, Applied Geospatial Engineer Manager of Frontier Precision, Inc., (720) 214-3500

Although the City of Gillette is not hosting a radio for this reference station, there are other options for the user. Mel Philbrook is the best source to have a discussion regarding those options. The City of Gillette is providing this free source to our community and hopes that you will find value in it. Enjoy the new reference station!

Sincerely,

The GIS Division